



## Transdisciplinary Theme How The World Works

### Central Idea

Materials are chosen according to the purpose and design of the structure being built.

### Unit dates:

December 11th — January 26th

### Lines of Inquiry

The properties and uses of different materials

Structural designs and the materials used to suit them

Building materials used for structures in different places

**Key Concepts:** Form, Function, Connection

### Attitude focus

Creativity

Independence

### Learner profile

Knowledgeable

Risk Taker

Communicator

### Teacher Questions

What are the properties and uses of different materials?

How do people decide what materials to use in their structures?

What are some of the historical changes in building materials?

What are the different types of structures?



### Skills Outline

Students will use their **research** skills when looking for information about the properties of materials and also buildings in their home country. The summative assessment will be an individual task therefore they will exercise their **self-management** skills. All of the information that they gathered in their research will be applied to the school that they will be designing, therefore, demonstrating their **thinking** skills.

### Examples of Learning Engagements

- Building skyscrapers using only cello tape and newspaper.
- Going on a field trip to explore the various buildings in Doha.
- Studying the collapse of The Tacoma Narrows Bridge on November 7, 1940.
- Building bridges using paper, tape and paper clips.
- French students will create a presentation about a shopping mall.
- In PE students will look at the materials sporting equipment is made from and inquire into how this affects their play.

